





NDIA Conference Indianapolis, IN

29 AUG 00

Mr. Robert Zienowicz Chief, Integration and Supportability Team OPM Small Arms

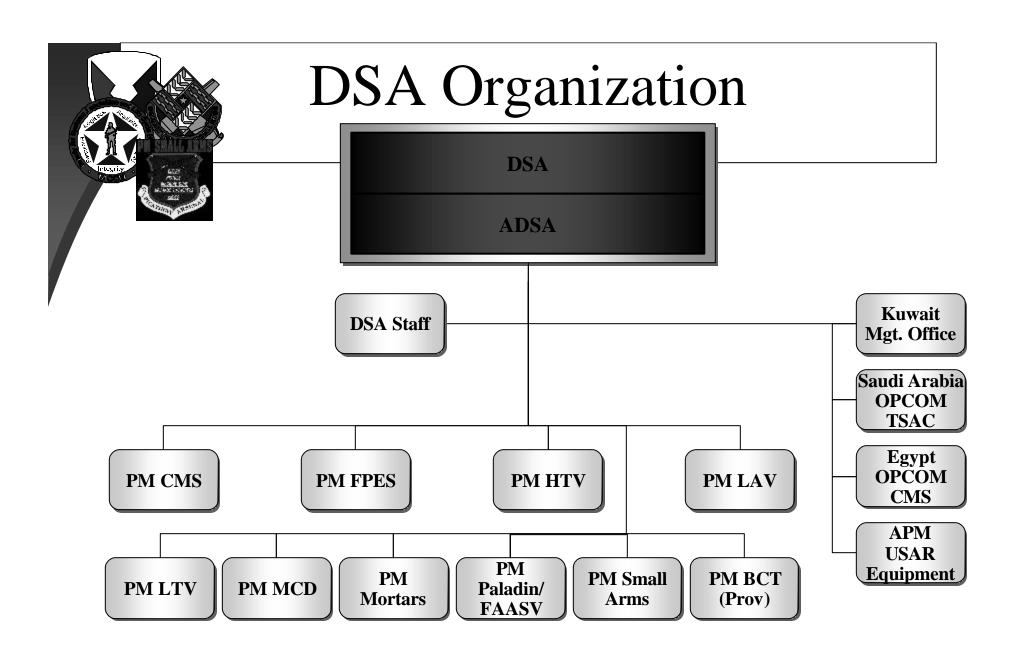
Tank-automotive & Armaments COMmand

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## **OUTLINE**

- OPMSA Organizational Changes
- Small Arms Direction
- Equipment Fielding
- Major Thrusts
  - Brigade Combat Team
  - Objective Individual Combat Weapon
  - Squad Designated Marksman
  - XM107 Sniper Rifle

- Other Initiatives
  - Integration
  - Weapons Improvements (Block Mods)
    - M203 Upgrade program
    - LW Ground Mount
  - Soldier Enhancement Program
    - Blunt trauma training ammo
  - XM1014 Joint Service Combat Shotgun
  - Common Remotely OperatedWeapon Station
  - Family of LW Hand Grenades



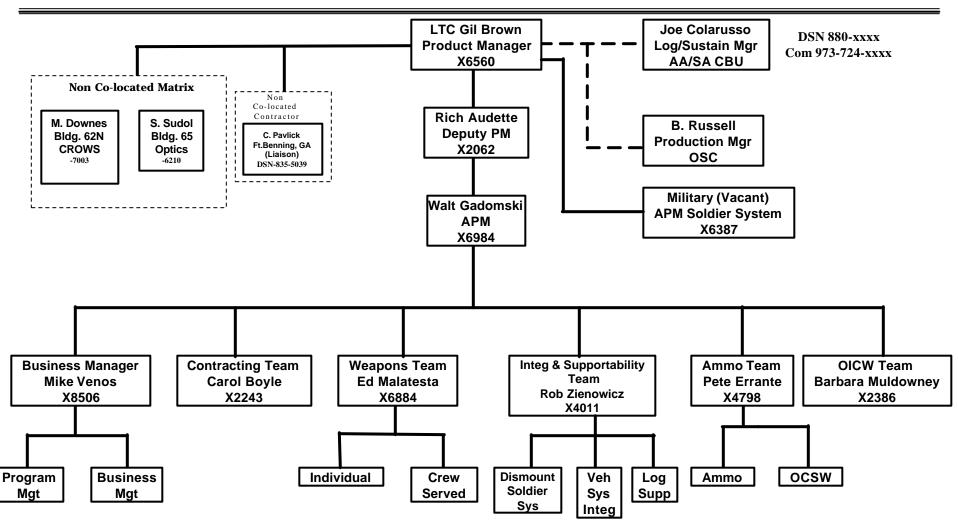
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21 Civilians1 Military

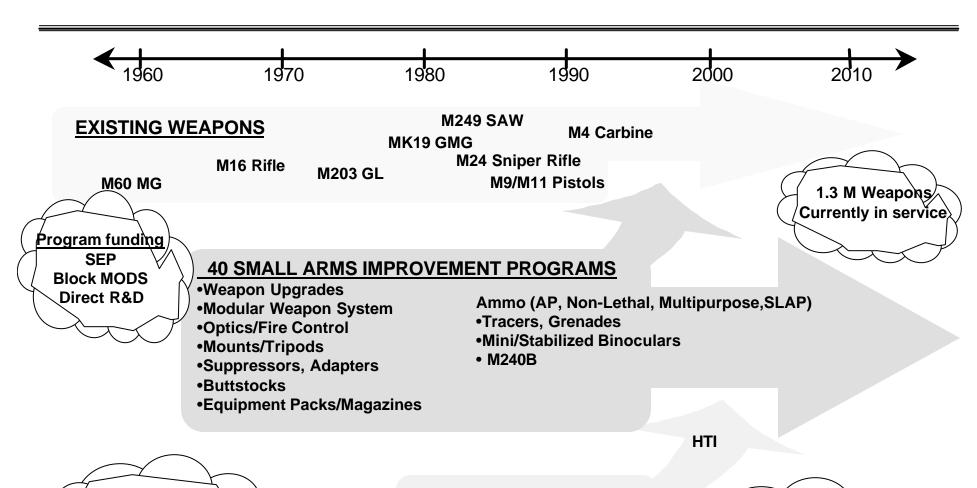
## Office of Product Manager Small Arms

16 Matrix (incl 1 Mil)





## **SMALL ARMS DIRECTION**



41 ACAT III Programs 1 ACAT II Program

#### SMALL ARMS MODERNIZATION

Long Range Sniper Rifle
Obj Individual Combat Weapon
Obj Crew Served Weapon
Obj Personal Defense Weapon

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OPMSA Programs
R&D = 32
Production = 21

# **EQUIPMENT FIELDING OVERVIEW-FY00**

SYSTEM	1 <sup>st</sup> Quarter	2 <sup>red</sup> QUARTER	3 <sup>™</sup> QUARTER	4 <sup>th</sup> QUARTER		
M4 CARBINE (11,438)			●◆∴↓↓ ▲●♥	<b>@±S</b>		
M203A1 (1,674)	<b>\$8</b>	₩ DUA				
MWS (5,375/25/754)			€\$	<b>7920</b> 0		
M68 CCO (35,213)	80	ପି≎⊗୭୭୫୭୭	<b>₹⊕₩⊕</b> ⊕	700A		
M249 (5,715)		● H S <u> </u>				
M249 FTC RAL (22,334)						
M6/M197 MOUHT (441/1,940)		<b>DO</b>	WAASLITASA DE A	<b>◎</b>		
M240B (1,296)		₩	84			

#### **EQUIPMENT FIELDING OVERVIEW-FY00**

(Continued)

SYSTEM	1 <sup>st</sup> QUARTER	2 <sup>nd</sup> QUARTER	3 <sup>rd</sup> QUARTER	4 <sup>th</sup> QUARTER
M145 MG0 (3,311)				
MK93 MOUNT (1,879)		<b>\$4</b>		A052% 200
M25 STAB BINO (294)			<b>~</b>	7.

This year, FY 2000, PM Small Arms will manage fieldings to one hundred and thirty nine high priority Army Order of Precedence units, numerous separate unit fieldings; from company to division level, in every major command in the Army, Worldwide.

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# **Brigade Combat Team**

### Vehicle Armament







ATD-OICW

### Dismounted Infantry

(Individual and crew served)









MK93 MOD 1, DUAL MOUNT

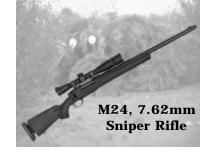






SQUAD DESIGNATE MARKSMAN







XM107, Cal .50 Sniper Rifle

# **Objective Individual Combat Weapon**

- Advanced Technology Demonstration has Proven the Concept
- Clearly Identified Areas of Risk
  - •Probability of Incapacitation P(i)
  - •Weight
  - •Fuze/Fire Control Interface
- ATD Provided Data on Design Shortcomings
- PD&RR Program Designed to Meet Challenges
  - •SMART
  - •Integral Training Strategy
- Dramatic Increases in Lethality and Survivability
- Strong User Support
- •Contract Award 4 Aug 00
- **FUE FY09**



#### SQUAD DESIGNATED MARKSMAN

#### **CAPABILITIES OF SYSTEM**

- •BCT Squad Rifleman W/ Secondary Marksman Role
- •Detect, Engage & Defeat 600m Threats

**Enhances Force Protection** 

**Reduces Collateral Damage** 

**Increases Long Range Visual Awareness** 

- Equipped with optic sight, SPECIAL M4 Weapon
- Incremental tech insertions (weapon, sight, ammo)

OBJECTIVE: Provide a Battlefield Reliable Weapon System To Meet Both BCT Squad

Rifleman and Designed Marksman Req'ts

#### **BENEFIT:**

- Deliver Immediate, Well Aimed, Precision Fire Out To 600m
- Use Optics to Detect Distant Targets
- Observe and Adjust Rounds Fired

**CONTRACTOR:** TBD

PROPONENT: US Army Infantry Center

<u>USER REPRESENTATIVE:</u> CPT Norm Hilton

POC: Michael Friedman /AMSTA-LC-AS / DSN: 880-4368

Russ Traub / AMSTA-AR-CCL-A / DSN: 880-3949

#### **STATUS:**

- DRAFT BCT O&O Plan Initially Driving Requirements
- Briefed & Approved By TSM As Out-Of-Cycle SEP (7/00)
- IBCT 1st BDE Components Being Purchased
- System Safety Releases Needed Prior to 1st BDE Training
- Materiel Release Required by Dec 01



# SNIPER WEAPON SYSTEM INITIATIVES



MR: 2Q FY02

XM107 LONG RANGE SNIPER RIFLE

## **SNIPER WEAPON SYSTEM**

#### CAPABILITIES OF ITEM

 Effective Sniping at Approximately 1500 Meters

<u>OBJECTIVE</u>: To Field Rifles That Have Counter Sniper and Anti Materiel Effectiveness BENEFIT:

**Effective Against Light Materiel Targets** 

- Accuracy at Long Range
- Counter Sniper Capability (MOUT)
- Improved Sniper Survivability

**CONTRACTOR:** Barrett Firearms MFG,Inc.

PROPONENT: US Army Infantry Center

**US Special Operations Command** 

POC: E. Malatesta/AMSTA-LC-AS/DSN: 880-6884

J. Glenn/AMSTA-AR-CCL-A/DSN: 880-7071

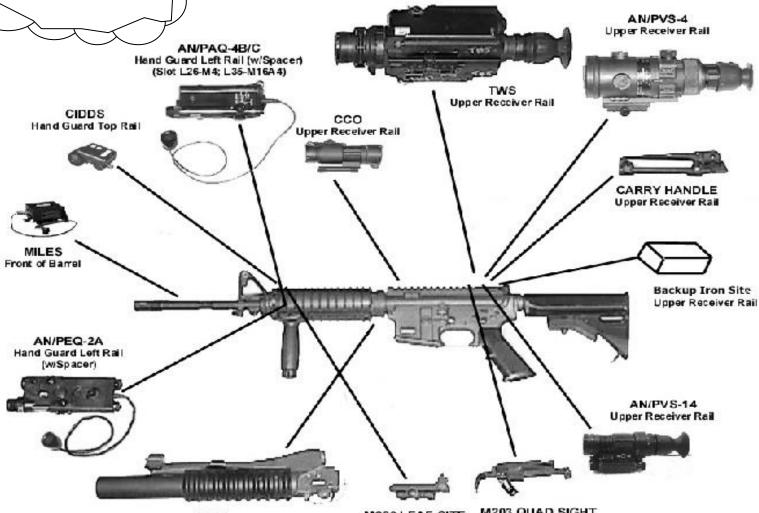
#### **STATUS:**

- •ORD Signed on 17 Aug 97
- Contract Awarded 18 May 99
- Partnering/Developmental Test Completed Oct 99
- •Pre-Production Qual Test (PPQT) Start Delayed to May 00
- •OT delayed until Aug 00 pending hardware mods
- •Entrance Criteria testing completed May 00
- •TEMP approved Jun 00

#### **ISSUE:**

• Production Funding Shortfall Due to BOI Requirements of 1 per M24

# Interim Weapon Modular Weapon System for Land Warrior



M203 Hand Guard Bottom Rail (w/Quick Attach Bracket) M203 LEAF SITE M203 QUAD SIGHT Hand Guard Top Rail Upper Receiver Rail (Slot T24-M4; T38-M16A4)

#### M203 GRENADE LAUNCHER SYSTEM UPGRADE



#### STATUS:

- •Enhanced System Capability Through
  - Day/Night Capability
  - •Laser Range finding
  - •Enhanced Ammunition Lethality, Accuracy, and Reliability

#### **OBJECTIVE:**

- Provide Coordinated Fire Control, Ammunition and Weapon Modifications to Improve System Accuracy and Add Day/Night Lethal Capability BENEFIT:
- Increased Overall System Lethality
- Night Fighting Capability

**CONTRACTOR:** To Be Determined

PROPONENT: US Army Infantry Center

POC: T. Miskovich/AMSTA-LC-AS/DSN: 880-2604

#### STATUS:

- FY00 NEW START
- ONGOING EFFORTS
  - SIGHTING PROCESS EXPERIMENTS
  - WARHEAD & AEROBALLISTICS
  - SIMULATIONS
  - FUZE CONCEPTS
  - TP AMMO CONCEPTS

#### LIGHT WEIGHT GROUND MOUNT FOR MACHINE GUNS

#### **CAPABILITIES OF ITEM**

•Mounts Light and Medium Machine Guns for Ground Application

#### **REQUIREMENTS**

- •Less Than 11 Lbs
- Compact Foldable/Collapsible
- Capability to Use Range Card Data
- Integrated T&E

OBJECTIVE: Improve Soldier Mobility by Fielding a Light Weight, Compact Machine Gun

Mount.

#### **BENEFIT:**

Reduced Soldier Load, Improved Mobility

CONTRACTOR: TBD

**PROPONENT:** US Army Infantry Center

POC: R. Zienowicz/AMSTA-DSA-SA/DSN: 880-4011

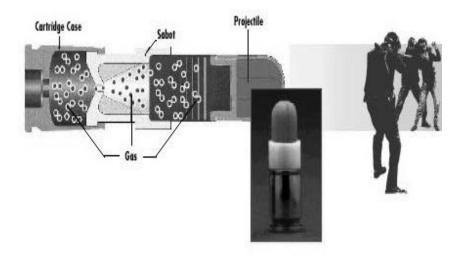
G. Funcasta/AMSTA-AR-CCL-A/DSN: 880-6085

#### **STATUS:**

- Market Survey Completed
- •Requirement Established in Improved Medium MG ORD
- •TEMP Drafted

#### **CLOSE COMBAT MISSION CAPABILITY KIT**

#### (M4/M16)



#### **OBJECTIVE:**

Type Classify and Field a Dye-Marker Training Round to Enhance Force on Force Training and Simulate Live Fire Combat

#### **DESCRIPTION:**

The blunt trauma training ammunition is a commercially available product which contains a soft frangible projectile filled with a colored dye which allows for realistic force-on-force training

**CONTRACTOR: TBD** 

**PROPONENT: US Army Infantry Center** 

POC: P. Errante/AMSTA-LC-AS/DSN: 880-4798

#### STATUS:

•FY01 New Start

#### **JOINT SERVICE COMBAT SHOTGUN, XM1014**





#### **CAPABILITIES OF ITEM**

- 12 Ga. Semi-Automatic
- Effective Range of 40 Meters
- Compatible with Standard 2 3/4 "00" and 3 inch ammo
- Will manually cycle current Non-Lethal Munitions
- Telescoping/collapsible Buttstock with Pistol Grip
- Magazine Capacity of 5 rounds (Threshold)
- Reliably Function when Exposed to Adverse Environmental Conditions

OBJECTIVE: To adopt the Joint Service Combat Shotgun, XM1014 for use Within the Army BENEFIT: Will Standardize Army Shotguns with Those in Use by the Joint Services

- 12 Ga. Semi-automatic Function
- Mounting Rail for Sighting Accessories
- Will Provide a Higher Volume of Fire than Existing Pump Action Shotguns
- Will Reduce the Existing Logistics Burden of Supporting the Existing Three Types of Pump Actions Shotguns in Use Throughout DOD CONTRACTOR: H&K/Benelli

**PROPONENT:** Joint Service Lead - Marine Corps

**Systems** 

**Command; US Army - USA Infantry Center** 

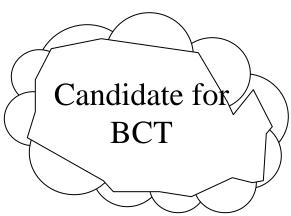
POC: E. Malatesta/AMSTA-LC-AS/DSN: 880-6884
J. Glenn/AMSTA-AR-CCL-A/DSN: 880-7071

#### STATUS: USMC PROGRAM TO DATE

- Competitive RFP Released May 98
- •RDT&E Contract Awarded 19 Feb 99
- •OT Completed 29 Apr 99/TFT Completed Oct 99
- •MARCORSYSCOM Milestone III in Feb 00
- Production Option Awarded for USMC May 00
- •First Article Scheduled to Start Jul 00

# COMMON REMOTELY OPERATED WEAPON STATION (CROWS)

<u>OBJECTIVE</u>: Provide a remote vehicle mounting system for machineguns (MK19 GMG, .50 Cal M2, M240, M249 and Objective Crew Served Weapon (OCSW)).

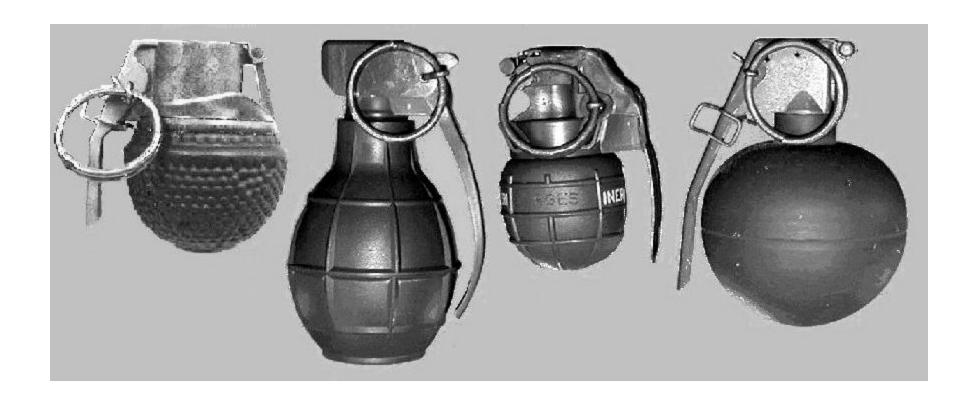


- •Allows Crew Served Weapons to be Operated Remotely
- •Improves System Accuracy and Operational Response Time
- •Provides Common Armament Platform Across a Variety of Vehicles Lowering Life Cycle Costs
- •Modular, Open Architecture Will Readily Allow Future Improvements
- •ORD Approved 26 Apr 99
- •Demonstrating Commercial Prototype Hardware for Army and Air Force Users
- •PMSA/PMLTV MOA in Process for ASV evaluation.

POC: M. Downes/AMSTA-LC-AS/DSN: 880-6210

# Lightweight Fragmentation Hand Grenade Program

(R&D)



# Lightweight Fragmentation Hand Grenade Program

#### **CAPABILITIES OF ITEM**

- Reduce Weight/Volume by 25%
- Maintain Performance
- OBJECTIVE:
- Field a Family of LW Concussion, Obscuration, Signaling and Training Hand Grenades BENEFIT:
- Reduce Weight to Improve Fuze Reliability
- Improve Supportability

**CONTRACTOR:** To Be Determined

**PROPONENT:** US Army Infantry Center

POC: J. Chang/AMSTA-LC-AS/DSN: 880-8623

# In summary . . .

- **Approximately 1.3 million Army small arms are in use. Problems are magnified by density.**
- **Small arms in field today will continue in service into foreseeable future and must be improved.**
- **☆** Next generation small arms, Objective Family, will provide quantum improvements in lethality, all weather capability, and situational awareness.

# Questions?

http://w3.pica.army.mil/pmsarobertz@pica.army.mil

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